

Monthly Summary of EPA Monitoring Data



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Monitoring Period	01 July 2016 - 31 July 2016						
Date Published	16 August 2016						
EPA Licence No.	13091						
EPA Licence Hyperlink	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	Locked Bag 6, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 2)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	3	< 5	< 5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	6	0.05	0.43	1	no
pH	pH	Daily during any discharge	6	7.1	8.2	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	6	3.7	42	50	no
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge						
Monitoring Location (EPA Point 3)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
Monitoring Location (EPA Point 21)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	6	< 5	8.7	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	9	0.26	3.5	1	yes (note 3)
pH	pH	Daily during any discharge	9	7.2	8.1	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	9	1.9	220	50	yes (note 3)
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) Refer to Exceedance Table for more information						
Monitoring Location (EPA Point 22)	Enclosed Ground Level Flare in the North-Eastern corner of the Premises.						
Parameter	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Max. value	Lower Limit (Note 2)	Exceedance (yes/no) (Note 3)
Temperature	°C (Note 1)	Continuous	Continuous	27	822	760	no
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified (Note 3) Not a non-compliance as low temperature occurred on 29th July 2016 due to shutdown for 16 minutes during relocation works for gas well # 21. The 5%ile value = 796.3°C						

Exceedance Table



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Monitoring Location (EPA Point 21)	Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , for location (EPA 21)					
Pollutant	Units of measure	Monitoring frequency required by licence	100 percentile limit	Exceedance Date	Value	Recorded Site Rainfall (mm) (Note 2)
Ammonia	mg/L (Note 1)	Daily during any discharge	1	8/07/2016	3.5	34
Ammonia	mg/L (Note 1)	Daily during any discharge	1	9/07/2016	2.6	43
Total Suspended Solids	mg/L (Note 1)	Daily during any discharge	50	8/07/2016	220	34
Total Suspended Solids	mg/L (Note 1)	Daily during any discharge	50	9/07/2016	190	43
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres) - up to 5 day cumulative rainfall					
Exceedance Information	<p><u>Ammonia</u>: The source of the above ammonia in samples collected from uncontrolled discharges on the above dates was identified to be from a seepage point where leachate entered the western drain during heavy rainfall on 8 and 9 July 2016. Immediate and ongoing action involves pumping leachate into tanker trucks from the leachate interception trench observation wells below a batter on the NW area of the site. Leachate stopped entering the western drain once this was done. The feasibility of connection of the leachate interception trench directly into the leachate reticulation network in the new landfill cell in Area 3B is being investigated.</p> <p><u>TSS</u>: The TSS exceedances occurred due to the high intensity rainfall on the above dates. Due to the large amounts of stormwater entering the site from extensive 'undisturbed' catchments that then mix with runoff from disturbed areas of the site, these exceedances will be unavoidable during high intensity events until the completion of the high level perimeter drains.</p>					

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Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Mean value	Median value	Max. value
Conductivity	µS/cm (Note 1)	Daily during any discharge	6	223	523	532	745
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 3)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)						
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Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Mean value	Median value	Max. value
Conductivity	µS/cm (Note 1)	Daily during any discharge	9	190	318	345	413
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 22)	Enclosed Ground Level Flare in the North-Eastern corner of the Premises.						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value (Note 2)	Mean value	Median value	Max. value
Volumetric flowrate	m ³ /h (Note 1)	Continuous	Continuous	0	409	410	451
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero minimum value was due to a system shutdown on 29th July 2016 during relocation works for gas well 21						